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Notice of Allowability	Application No.	Applicant(s)
	10/665,574	TAKAOKI, KAZUO
	Examiner	Art Unit
	Rip A. Lee	1713
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to September 11, 2006.		
2. ☑ The allowed claim(s) is/are <u>17 and 21-30</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5 Days of 6 and 5	
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	' '
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Da 	te
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement	ent of Reasons for Allowance
	9.	

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Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 17 and 21-30 are allowed over the closest references cited below.

The present invention is drawn to a process for producing a catalyst comprising contacting (a) triphenylbismuth, (b) pentafluorophenol, and (c) silica. Another aspect of the invention is a process for producing addition polymer in the presence of the catalyst produced by the claimed process.

Ogane (U.S. 2002/0143124) and independently, Ogane (DE 101 64 188) broadly disclose a modified particle prepared by a process comprising contacting silica with a compound of formula $M^1L^1_m$ (M^1 is an atom from group 1, 2, 12, 14, or 15, which includes bismuth) and a compound of formula $R^1_{t-1}TH$ (R^1 is an electron withdrawing, halogenated hydrocarbon group, T is oxygen), and a compound of formula $R^2_{t-2}TH_2$. The resulting modified particle is contacted with an aluminoxane and a metallocene to produce a catalyst for polymerization of ethylene with α -olefins. Neither reference discloses the compound Ph_3Bi specifically. The present inventors have shown in a declaration under 37 C.F.R. § 1.132 sufficient showing of unobviousness over the prior art. The catalyst of the present invention unexpectedly shows a significantly higher level of polymerization activity compared with the catalyst described in Ogane *et al.*, which uses Et_2Zn as the compound of formula $M^1L^1_m$. As such, the process of the instant claims is neither taught nor made obvious in Ogane.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

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November 14, 2006

LING-SUI CHOI PRIMARY EXAMINER